

California Marine Life Protection Act Initiative
Analysis of Habitat Representation in MPA Packages
March 29, 2006

Package 0 (Existing Central Coast MPAs 2005)

	<i>How measured</i>	<i>Total Amount in Study Region</i>	<i>Total Percent of Study Region</i>	<i>Amount in Existing SMRs</i>	<i>Percent of Total in Existing SMRs</i>	<i>Amount in Existing SMPs</i>	<i>Percent of Total in Existing SMPs</i>	<i>Amount in Existing SMCAs</i>	<i>Percent of Total in Existing SMCAs</i>	<i>Amount in Existing SCs</i>	<i>Percent of Total in Existing SCs</i>	<i>Amount in all Existing MPAs in Region</i>	<i>Percent of Total in Existing MPAs</i>	<i>Spatial Data Source</i>
Area	Area (mi2)	1150.01		7.45	0.65%	0.00	0.00%	33.50	2.91%	2.20	0.19%	43.15	3.75%	GIS analysis
Number of MPAs				5		0		7		1		13		
HABITAT TYPE														
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	5.27	2.36%	0.00	0.00%	14.42	6.45%	6.06	2.71%	25.75	11.51%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	16.71	7.99%	0.00	0.00%	12.69	6.07%	2.73	1.30%	32.13	15.36%	NOAA ESI 2002
Coastal marsh	Linear (mi)	36.53	9.8%	9.16	25.08%	0.00	0.00%	0.00	0.00%	0.00	0.00%	9.16	25.08%	NOAA ESI 2002
Tidal flats	Linear (mi)	23.48	6.3%	9.16	39.02%	0.00	0.00%	0.00	0.00%	0.00	0.00%	9.16	39.02%	NOAA ESI 2002
Surfgrass	Linear (mi)	161.09	43.4%	9.74	6.05%	0.00	0.00%	11.82	7.34%	4.59	2.85%	26.15	16.23%	Minerals Management Service / Tenera Inc.
Eelgrass	Area (mi2)	1.07	0.1%	0.03	2.80%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.03	2.80%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	Area (mi2)	9.83	0.9%	1.36	13.84%	0.00	0.00%	0.06	0.61%	0.00	0.00%	1.42	14.45%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	4.52	1.67%	0.00	0.00%	14.82	5.48%	1.88	0.70%	21.22	7.85%	Substrata_Proxy Layer (DFG 2005) based on fine scale (high res); coarse-scale (low res); union of all kelp as proxy for rock; CPFV rockfish fishing effort as proxy for rock
Soft 30-100	Area (mi2)	562.38	48.9%	1.32	0.23%	0.00	0.00%	14.78	2.63%	0.00	0.00%	16.10	2.86%	same as above
Soft 100-200	Area (mi2)	57.83	5.0%	0.00	0.00%	0.00	0.00%	0.02	0.03%	0.00	0.00%	0.02	0.03%	same as above
Soft >200	Area (mi2)	105.52	9.2%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	1.04	1.41%	0.00	0.00%	2.12	2.88%	0.33	0.45%	3.49	4.74%	same as above
Hard 30-100	Area (mi2)	40.30	3.5%	0.28	0.69%	0.00	0.00%	0.72	1.79%	0.00	0.00%	1.00	2.48%	same as above
Hard 100-200	Area (mi2)	14.64	1.3%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	same as above
Hard >200	Area (mi2)	16.16	1.4%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	same as above
Average kelp	Area (mi2)	10.83	0.94%	0.36	3.35%	0.00	0.00%	0.68	6.23%	0.00	0.02%	1.04	9.61%	Average of DFG aerial survey years: '89, '99, '02, '03

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Area	Area (mi2)	1150.01		7.45	0.65%	0.00	0.00%	33.50	2.91%	2.20	0.19%	43.15	3.75%	GIS analysis
Number of MPAs				5		0		7		1		13		
HABITAT TYPE														
Persistent kelp	Area (mi2); present in 3 of 4 yrs	3.18	0.3%	0.20	6.29%	0.00	0.00%	0.21	6.61%	0.00	0.00%	0.41	12.90%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	Area (mi2)	0.56	0.0%	0.00	0.00%	0.00	0.00%	0.18	31.86%	0.00	0.00%	0.18	31.86%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30-100	Area (mi2)	4.42	0.4%	0.00	0.00%	0.00	0.00%	0.07	1.58%	0.00	0.00%	0.07	1.58%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100-200	Area (mi2)	6.06	0.5%	0.00	0.00%	0.00	0.00%	0.01	0.17%	0.00	0.00%	0.01	0.17%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	Area (mi2)	42.77	3.7%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	0.00	0.00%	Coarse-scale substrata data (Greene et al 2004)

SC = special closure; SMCA = state marine conservation area; SMP = state marine park; SMR = state marine reserve
The total shoreline length, as measured by NOAA-ESI data, is 371mi.